Nokia Customer Care
NPL-4/5 Series Transceivers

Service Tools

Issue 1 05/04
Copyright © 2004 Nokia Corporation. All rights reserved

[This page left intentionally blank]

Copyright © 2004 Nokia Corporation. All rights reserved

Table of Contents

Page No

JBV-1 Docking Station and DA-7 Adapter 5
Product Code 5
MJ-9 Module Test Jig 7
Product Code 7
RJ-8 Soldering Jig 8
Product Code 8
FPS-8 Flash Prommer (Sales Pack) 9
Sales package code 9
FPS-8C Parallel Flash Prommer (Sales Pack) 10
Sales package code 10
ACF-8 Universal Power Supply 11
Product Code 11
SF-6 POS (Point of sales) Flash Adapter 12
Product Code 12
FLC-2 DC Cable 13
Product Code 13
AXS-4 Service Cable 14
Product code 14
XCS-1 Service Cable 15
Product code 15
PKD-1 SW Security Device 16
FLS-4S POS (Point of sales) Flash Device (Sales Pack) 17
Product Code 17
PCS-1 Power Cable 18
Product Code 18
XRF-1 RF Cable 19
Product code 19
DAU-9S MBUS Cable 20
Product Code 20
CA-5S Cable 21
Product Code 21
XCS-4 Modular Cable 22
Product code 22
Printer Cable 23
Product code 23
DAU-9T Service Cable 23
Product code 23
DKU-5 FBUS/USB Cable 24
Product code 24

List of Figures

Page No

Fig 1 DA-7 and SA-27 6
Fig 2 SA-27 6
Fig 3 DA-7 6

 Copyright © 2004 Nokia Corporation. All rights reserved

Fig 4 View of MJ-9 7
Fig 5 View of RJ-8 8
Fig 6 View of FPS-8 10
Fig 7 View of FPS-8C 11
Fig 8 View of ACF-8 12
Fig 9 View of SF-6 13
Fig 10 View of FLC-2 14
Fig 11 View of AXS-4 15
Fig 12 View of XCS-1 16
Fig 13 View of SW Security Device 17
Fig 14 View of FLS-4S 18
Fig 15 View of PCS-1 19
Fig 16 View of XRF-1 20
Fig 17 View of DAU-9S 21
Fig 18 View of SCB-3 22
Fig 19 View of XCS-4 23
Fig 20 View of Printer Cable 24

Copyright © 2004 Nokia Corporation. All rights reserved

JBV-1 Docking Station and DA-7 Adapter

The JBV-1 Docking Station has been designed for calibration and software update use. The DA-7 Docking Station Adapter makes signal connections to the phone. JBV-1 and DA-7 are used as one unit.

JBV-1 main electric functions include:

- adjustable VBATT calibration voltage, current measurement limit voltage "VCHAR", current measurement calibration current "ICHAR"

- adjustable ADC calibration voltage via BSI signal

- BTEMP and BSI calibration resistor

- signals from FBUS to the phone via parallel jig

- control via FBUS or USB

- Flash OK/FAIL indication

In calibration mode JBV-1 is powered by external power supply 11-16V DC. In flashing power for the phone can be taken from FPS-8 or external power supply 11-16V DC.

DA-7 main electric functions are:

- phone recognizing from BTEMP

- filters of FBUS signals

- SIM CARD reader

Product Code

JBV-1 Docking Station:	0770298
DA-7 Docking Station Adapter:	0770708
RF-coupler SA-27:	0780349
Spare pin code:	0770450

 Copyright © 2004 Nokia Corporation. All rights reserved

Figure 1: DA-7 and SA-27

Figure 2: SA-27

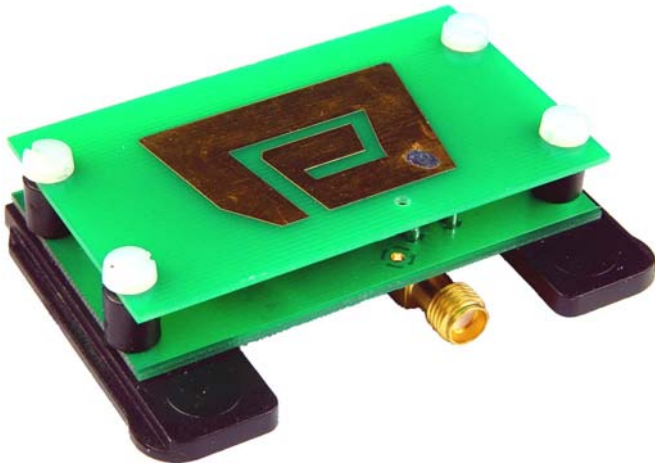


Figure 3: DA-7

Copyright © 2004 Nokia Corporation. All rights reserved

MJ-9 Module Test Jig

Module Test Jig MJ-9 is designed for regional Central Services for TB4 module testing. It can be used for flashing and RF-, battery-, system-, radio- and SIM reader testing.

Product Code

MJ-9 Module Test Jig:	0770707
Spare pin code:	0770642

Figure 4: View of MJ-9

Note: The nominal supply voltage for MJ-9 is +4.2 V.

The supply voltage must not exceed +12.0 V (min 3V).

(MJ-9 includes overvoltage, overcurrent and reversed polarity protection).

For flashing with FPS-8, it is possible to bypass the regulator

(jumper).

 Copyright © 2004 Nokia Corporation. All rights reserved

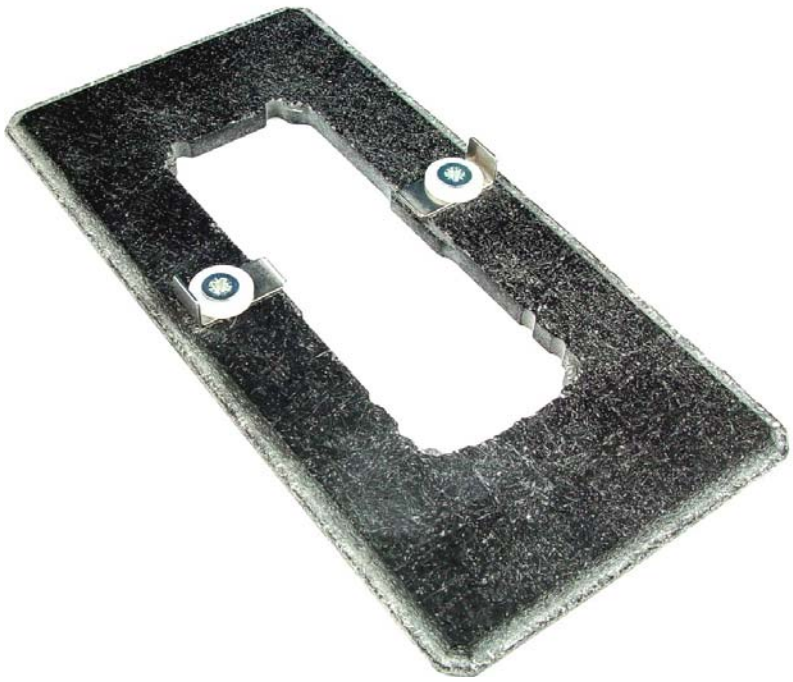
RJ-8 Soldering Jig

RJ-8 Soldering Jig is used for soldering and as a rework jig for TB4 module.

Product Code

RJ-8 Module Jig: 0775853

Figure 5: View of RJ-8



Copyright © 2004 Nokia Corporation. All rights reserved

FPS-8 Flash Prommer (Sales Pack)

The Flash Prommer FPS-8 is used with e.g. DA-7 and JBV-1. Power is supplied to FPS-8 from the Universal Power Supply.

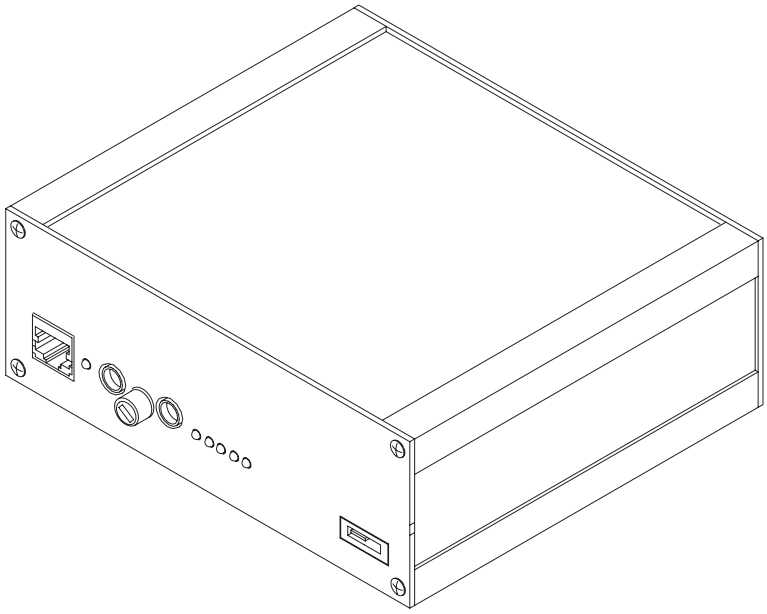
The sales pack includes:

- FPS-8 Flash Prommer 0750123
- FPS-8 Activation Sheet 9359289
- Universal Power Supply 0680032
- AXS-4 Service Cable (D9-D9) 0730090
- Printer cable 0730029

Sales package code

FPS-8 Flash Prommer: 0080321

Figure 6: View of FPS-8



 Copyright © 2004 Nokia Corporation. All rights reserved

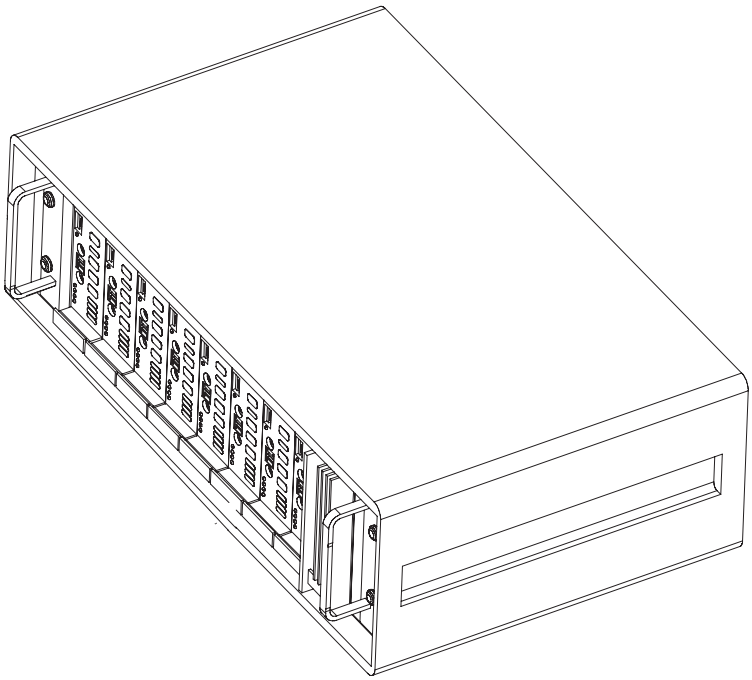
FPS-8C Parallel Flash Prommer (Sales Pack)

The Parallel Flash Prommer FPS-8C is used with DA-7 and JBV-1. Flash programming can be done to maximum of 8 phones parallel. FPS-8C consists of eight SF11C programming cards. SF11C card is func tionally identical to FPS-8.

Sales package code

FPS-8C Parallel Flash Prommer: 0080396

Figure 7: View of FPS-8C



Copyright © 2004 Nokia Corporation. All rights reserved

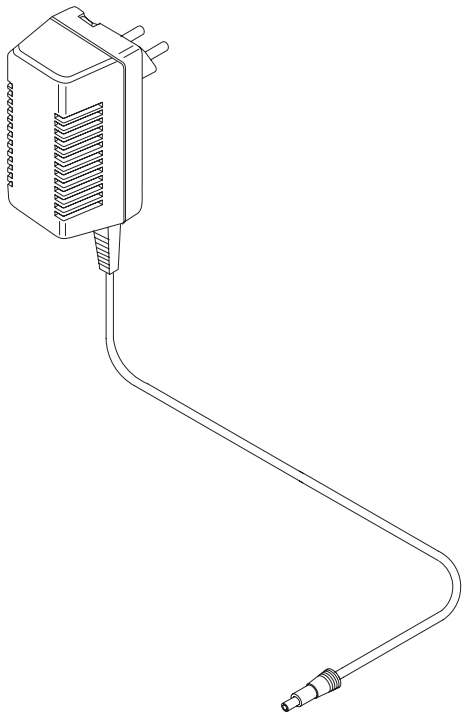
ACF-8 Universal Power Supply

ACF-8 Universal Power Supply is used to power FPS-8. ACF-8 has 6 V DC and 2.1 A output.

Product Code

ACF-8 Universal Power Supply: 0680032

Figure 8: View of ACF-8



 Copyright © 2004 Nokia Corporation. All rights reserved

SF-6 POS (Point of sales) Flash Adapter

SF-6 POS Flash Adapter is used in place of the phone's normal battery during service, to supply a controlled operating voltage.

Product Code

SF-6 POS Flash Adapter:	0770709
Spare pin code:	0770450

Figure 9: View of SF-6

Copyright © 2004 Nokia Corporation. All rights reserved

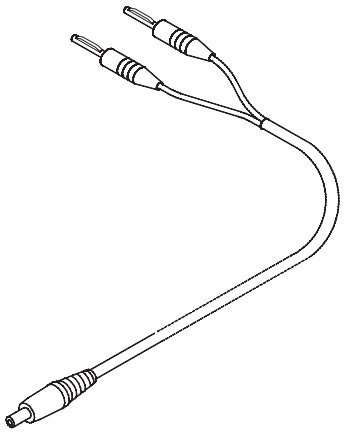
FLC-2 DC Cable

The FLC-2 is used to supply a controlled operating voltage.

Product Code

FLC-2 DC Cable:	0730185

Figure 10: View of FLC-2



 Copyright © 2004 Nokia Corporation. All rights reserved

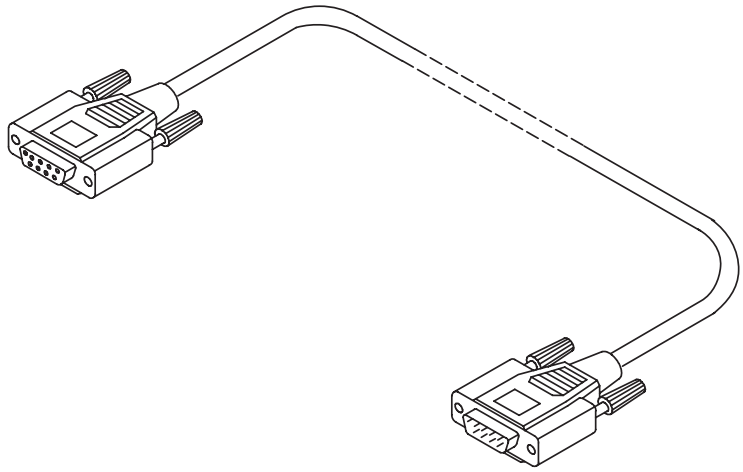
AXS-4 Service Cable

The AXS-4 D9-D9 Service Cable is used to connect two 9 pin D connec tors e.g. between PC and FPS-8. Cable length is 2 meters.

Product code

AXS-4 D9-D9 Service Cable: 0730090

Figure 11: View of AXS-4



Copyright © 2004 Nokia Corporation. All rights reserved

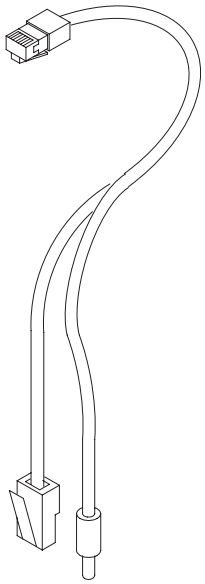
XCS-1 Service Cable

The XCS-1 Service Cable is used to connect FLS-4S to SF-6.

Product code

XCS-1 Service Cable: 0730218

Figure 12: View of XCS-1



 Copyright © 2004 Nokia Corporation. All rights reserved

PKD-1 SW Security Device

SW security device is a piece of hardware enabling the use of the service software when connected to the parallel (LPT) port of the PC. Without the dongle present it is not possible to use the service software. Printer or any such device can be connected to the PC through the dongle if needed.

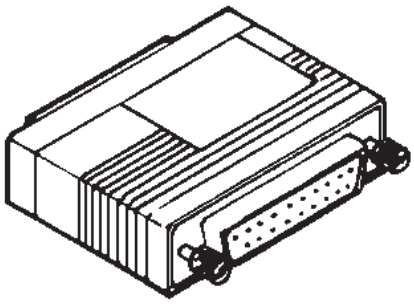
Caution: Make sure that you have s witched off the PC and the printer before making connections!

Caution: Do not connect the PKD-1 to the serial port. You may damage your PKD-1!

Product Code

SW Security Device PKD-1: 0750018

Figure 13: View of SW Security Device



Copyright © 2004 Nokia Corporation. All rights reserved

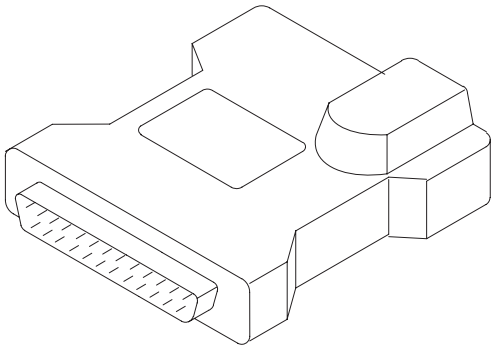
FLS-4S POS (Point of sales) Flash Device (Sales Pack)

FLS-4S is a dongle and flash device incorporated into one package, developed specifically for POS use.

Product Code

Sales Pack - Europe/Africa	0080541
Sales Pack -APAC	0080542

Figure 14: View of FLS-4S



Copyright © 2004 Nokia Corporation. All rights reserved

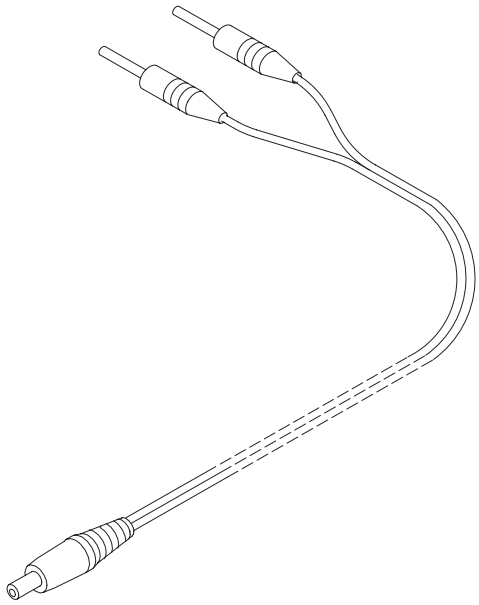
PCS-1 Power Cable

The PCS-1 Power Cable (DC) is used to connect e.g. JBV-1 to FPS-8.

Product Code

PCS-1 Power Cable: 0730012

Figure 15: View of PCS-1



Copyright © 2004 Nokia Corporation. All rights reserved

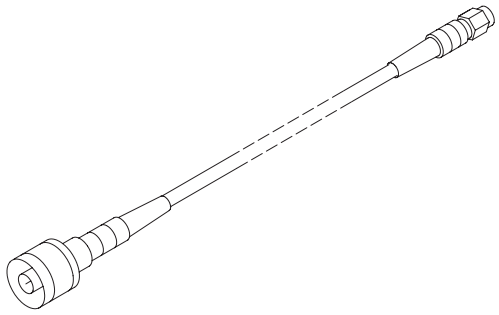
XRF-1 RF Cable

RF cable XRF-1 is used to connect e.g. Module Jig MJ-9 to RF measurement equipment.

Product code

XRF-1 RF Cable: 0730085

Figure 16: View of XRF-1



 Copyright © 2004 Nokia Corporation. All rights reserved

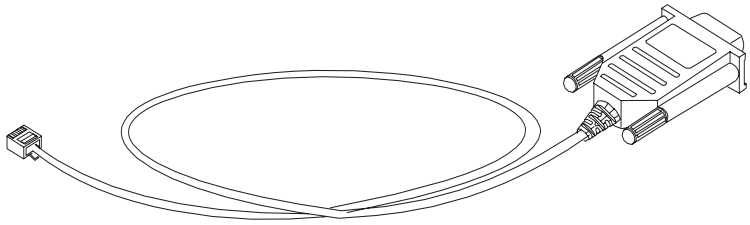
DAU-9S MBUS Cable

The MBUS Cable DAU-9S has a modular connector, and is used with be tween PC's serial port and e.g. Module Jig MJ-9.

Product Code

DAU-9S MBUS Cable: 0730108

Figure 17: View of DAU-9S



Copyright © 2004 Nokia Corporation. All rights reserved

CA-5S Cable

The CA-5S is used to connect e.g. JBV-1 to the phone.

Product Code

CA-5S Cable: 0730283

 Copyright © 2004 Nokia Corporation. All rights reserved

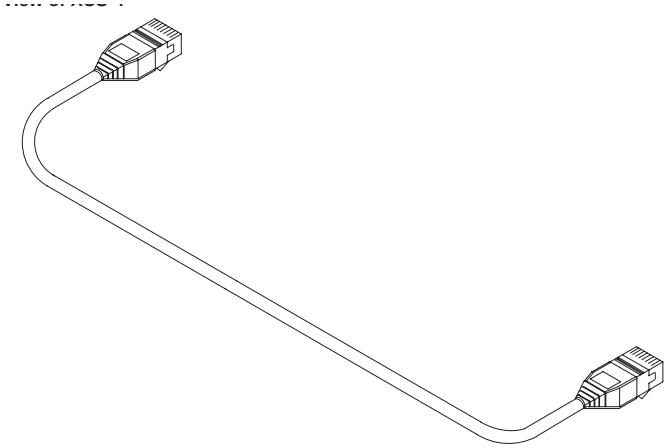
XCS-4 Modular Cable

XCS-4 is a shielded cable (one specially shielded conductor) modular cable for flashing and service purposes.

Product code

XCS-4 Modular Cable: 0730178

Figure 18: View of XCS-4



Copyright © 2004 Nokia Corporation. All rights reserved

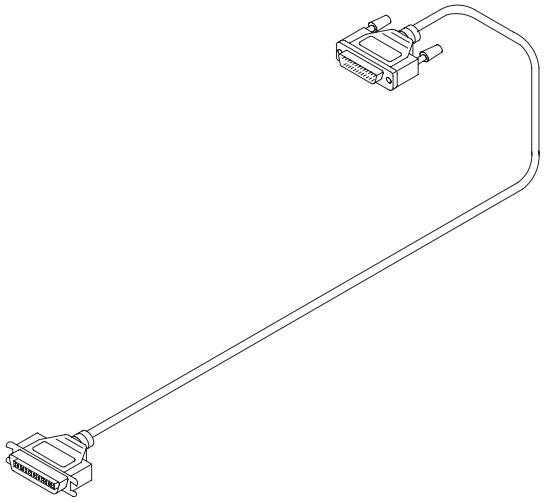
Printer Cable

This cable is used to connect the PC to FPS-8.

Product code

Printer Cable: 0730029

Figure 19: View of Printer Cable



DAU-9T Service Cable

Product code

DAU-9T Service Cable: 0730267

 Copyright © 2004 Nokia Corporation. All rights reserved

DKU-5 FBUS/USB Cable

Seamless connectivity between USB compatible PC and Nokia phone. Supports a Nokia PC Suite usage and synchronisation desk stand. Enables data transfer and synchronisation with PC.

Product code

DKU-5 FBUS/USB Cable: 0730235

Figure 20: View of DKU-5 Cable

Copyright © 2004 Nokia Corporation. All rights reserved